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3	BRS	L3	506	2 and (connect\$3 or join\$3 or cluster\$3 or subcluster\$3)	USPAT
4	BRS	L4	30	3 and (language with model or gram)	USPAT
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7	BRS	L7	39	6 and (language with model or gram)	US-PGPUB
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**1. Exploiting latent semantic information in statistical language modeling**

Bellegarda, J.R.;
 Proceedings of the IEEE
 Volume 88, Issue 8, Aug. 2000 Page(s):1279 - 1296
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(332 KB) IEEE JNL

**2. A multispan language modeling framework for large vocabulary speech recognition**

Bellegarda, J.R.;
 Speech and Audio Processing, IEEE Transactions on
 Volume 6, Issue 5, Sept. 1998 Page(s):456 - 467
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(296 KB) IEEE JNL

**3. Two-handed volumetric document corpus management**

Ebert, D.S.; Zwa, A.; Miller, E.L.; Shaw, C.D.; Roberts, D.A.;
 Computer Graphics and Applications, IEEE
 Volume 17, Issue 4, July-Aug. 1997 Page(s):60 - 62
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(120 KB) IEEE JNL

**4. From paragraph networks to document networks**

Jinghao Miao; Berleant, D.;
 Information Technology: Coding and Computing, 2004. Proceedings. ITCC 2004. International Conference on
 Volume 1, 2004 Page(s):295 - 302 Vol.1
[AbstractPlus](#) | Full Text: [PDF](#)(6044 KB) IEEE CNF

**5. Conjoined location and recognition of street names within a postal address delivery**

El Yacoubi, A.; Bertille, J.-M.; Gilloux, M.;
 Document Analysis and Recognition, 1995., Proceedings of the Third International Conference on
 Volume 2, 14-16 Aug. 1995 Page(s):1024 - 1027 vol.2
[AbstractPlus](#) | Full Text: [PDF](#)(392 KB) IEEE CNF

**6. Exploration of contextual constraints for character pre-classification**

Tin Kam Ho; Nagy, G.;
 Document Analysis and Recognition, 2001. Proceedings. Sixth International Conference on
 10-13 Sept. 2001 Page(s):450 - 454
[AbstractPlus](#) | Full Text: [PDF](#)(400 KB) IEEE CNF

- ☐ **7. Thematic text clustering for domain specific language model adaptation**
Valsan, Z.; Emele, M.;
Automatic Speech Recognition and Understanding, 2003. ASRU '03. 2003 IEEE Work:
30 Nov.-3 Dec. 2003 Page(s):513 - 518
[AbstractPlus](#) | Full Text: [PDF\(490 KB\)](#) IEEE CNF
- ☐ **8. Graph structures in paragraph-linked repositories**
Jinghao Miao;
Web Intelligence, 2003. WI 2003. Proceedings. IEEE/WIC International Conference on
13-17 Oct. 2003 Page(s):10 - 17
[AbstractPlus](#) | Full Text: [PDF\(330 KB\)](#) IEEE CNF
- ☐ **9. Probability table compression for handwritten character recognition**
Sung-Jung Cho; Perrone, M.; Ratzlaff, E.;
Document Analysis and Recognition, 2003. Proceedings. Seventh International Confer
3-6 Aug. 2003 Page(s):173 - 177 vol.1
[AbstractPlus](#) | Full Text: [PDF\(2022 KB\)](#) IEEE CNF



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File 348:EUROPEAN PATENTS 1978-2005/Jun W02

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File 349:PCT FULLTEXT 1979-2005/UB=20050609,UT=20050602

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Set	Items	Description
S1	1	MACHINE(3N)TRANSLAT?(3N)(CONNECT? OR LINK? OR ASSOCIATE? OR CORRESPOND?)(3N)CANDIDATE?

File 344:Chinese Patents Abs Aug 1985-2005/May
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File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)
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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200536
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Set	Items	Description
S1	110	(EYE OR EYES OR IRIS OR SCHLERA) AND (REDNESS OR REDNESS()- VARIATION?? OR GLINT)
S2	904	REDEYE OR (RED OR REDNESS) (3N) (EYE?? OR IRIS OR SCHLERA)
S3	117	(DETECT? OR DETERMIN? OR IDENTIF? OR LOCAT? OR RECOG?) (3N-) (S1 OR S2)
S4	997410	FACE OR FACES OR FACIAL
S5	1677736	IMAGE? OR PICTURE?? OR PHOTOS OR PHOTOGRAPH??
S6	623810	COLOR OR COLOUR?
S7	107808	S6 AND (CHANG? OR VARIATION? OR DIFFERENCE? OR DISSIMILAR? OR VARYING OR VARIES)
S8	14569	LUMINENCE OR CHROMINANCE
S9	142760	PIXEL OR PEL OR PICTURE()ELEMENT?
S10	5933	METRIC??
S11	232	BOUNDING(3N) (BOX OR BOXES)
S12	294811	MATRIX OR MATRICE?? OR GRID OR GRIDS
S13	33	AU=(GAUBATZ, M? OR ULICHNEY, R? OR GAUBATZ M? OR ULICHNEY - R?)
S14	1	S13 AND (S1 OR S2)
S15	1	S3 AND S10
S16	0	S15 NOT S14
S17	3	S3 AND S12
S18	3	S17 NOT S14
S19	0	S3 AND S11
S20	9	S3 AND S7
S21	8	S20 NOT (S14 OR S15)
S22	3	S3 AND S8
S23	3	S22 NOT (S20 OR S14 OR S15 OR S17)
S24	54	S10 AND S7
S25	10	S24 AND S9
S26	6	S25 AND IC=(G06K? OR H04N?)
S27	6	S26 NOT (S22 OR S20 OR S14 OR S15 OR S17)
S28	20323	S9 AND S12
S29	743	S28 AND S7
S30	17	S29 AND (EYE OR EYES)
S31	3	S30 AND RED?
S32	3	S31 NOT (S26 OR S22 OR S20 OR S14 OR S15 OR S17)

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File 349:PCT FULLTEXT 1979-2005/UB=20050609,UT=20050602

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Set	Items	Description
S1	457165	DOCUMENT??
S2	95170	TEXT(3N)BLOCK?? OR NODE??
S3	217261	GRAPH??
S4	99366	DOT OR DOT()NODE?
S5	113	SIDE()ARC
S6	2658	NATURAL(3N)LANGUAGE?
S7	5257	MACHINE(3N)TRANSLAT?
S8	72	SEMANTIC(3N)EVALUAT?
S9	1558442	TOKEN?? OR WORD?? OR SPACES OR CHARACTER? OR LETTERS OR OBJECT?? OR KANJI OR SYMBOLS
S10	87373	BLANK(3N)CHARACTER?? OR SPACES
S11	14174	(CONNECT? OR LINK? OR ASSOCIATE? OR CORRESPOND?)(3N)(CANDIDATE? OR LIKELIHOOD? OR POSSIBILITY? OR PROBABILITY?)
S12	1058047	SPATIAL(3N)POSITION? OR COORDINATES OR POSITION?
S13	425621	COLUMNS OR VERTICAL
S14	359746	ROWS OR HORIZONTAL
S15	2395	LANGUAGE?(3N)MODEL?
S16	125	(NGRAM?? OR N-GRAM?? OR N()GRAM??)(3N)MODEL?
S17	5867	S1(3N)(LAYOUT OR LAY()OUT OR FORMAT? OR LAID()OUT)
S18	41	AU=(HURST, M? OR NASUKAWA, T? OR HURST M? OR NASUKAWA T?)
S19	168589	IC=(G06F? OR G06K?)
S20	0	S17(S)S2(S)S3(S)S4
S21	0	S17(S)S5
S22	1888	S17(S)S9
S23	7	S22(S)S11
S24	69	S22(S)S10
S25	19	S24(S)S12:S14
S26	7	S25(S)(S15 OR S16)
S27	7	S26 NOT S23
S28	0	S2(10N)S3(10N)S4(10N)S5
S29	179	S7(S)S1
S30	0	S29(S)S16
S31	1	S29(S)S11
S32	1	S31 NOT (S26 OR S23)
S33	1	S1(S)S5
S34	1	S33 NOT (S31 OR S26 OR S23)
S35	0	S18 AND S11
S36	24	S18 AND S9
S37	0	S36(S)S16
S38	0	S36(S)S15
S39	4	S36(S)S2:S5
S40	4	S39 NOT (S33 OR S31 OR S26 OR S23)
S41	142	S11(3N)OBJECT??
S42	7	S41(10N)(TOKEN?? OR WORD?? OR SPACES OR CHARACTER? OR LETTERS OR KANJI OR SYMBOLS)
S43	6	S42 NOT (S39 OR S33 OR S31 OR S26 OR S23)

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Set	Items	Description
S1	3839254	DOCUMENT??
S2	288815	TEXT(3N)BLOCK?? OR NODE??
S3	1235193	GRAPH??
S4	559768	DOT OR DOT()NODE?
S5	40	SIDE()ARC
S6	46760	NATURAL(3N)LANGUAGE?
S7	7611	MACHINE(3N)TRANSLAT?
S8	294	SEMANTIC(3N)EVALUAT?
S9	10246784	TOKEN?? OR WORD?? OR SPACES OR CHARACTER? OR LETTERS OR OBJECT?? OR KANJI OR SYMBOLS
S10	414017	BLANK(3N)CHARACTER?? OR SPACES
S11	38789	(CONNECT? OR LINK? OR ASSOCIATE? OR CORRESPOND?) (3N) (CANDIDATE? OR LIKELIHOOD? OR POSSIBILITIES? OR PROBABILITY?)
S12	9566162	SPATIAL(3N)POSITION? OR COORDINATES OR POSITION?
S13	1004325	COLUMNS OR VERTICAL
S14	459323	ROWS OR HORIZONTAL
S15	27301	LANGUAGE?(3N)MODEL?
S16	31	(NGRAM?? OR N-GRAM?? OR N()GRAM??) (3N)MODEL?
S17	56561	S1(3N) (LAYOUT OR LAY()OUT OR FORMAT? OR LAID()OUT)
S18	377	AU=(HURST, M? OR NASUKAWA, T? OR HURST M? OR NASUKAWA T?)
S19	1	S7(S)S11
S20	28	S18 AND S2:S5
S21	0	S20(S)S11
S22	0	S20(S)S9
S23	0	S20(S)S7
S24	10	RD S20 (unique items)
S25	3	S24 NOT PY=>2001
S26	3	RD S25 (unique items)
S27	0	S2(S)S3(S)S4(S)S5

File 344:Chinese Patents Abs Aug 1985-2005/May
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Set	Items	Description
S1	34541	DOCUMENTS
S2	92837	TEXT(3N)BLOCK?? OR NODE??
S3	91432	GRAPH??
S4	58158	DOT OR DOT()NODE?
S5	192	SIDE()ARC
S6	2880	NATURAL(3N)LANGUAGE?
S7	2473	MACHINE(3N)TRANSLAT?
S8	28	SEMANTIC(3N)EVALUAT?
S9	2028584	TOKEN?? OR WORD?? OR SPACES OR CHARACTER? OR LETTERS OR OBJECT?? OR KANJI OR SYMBOLS
S10	89488	BLANK(3N)CHARACTER?? OR SPACES
S11	5268	(CONNECT? OR LINK? OR ASSOCIATE? OR CORRESPOND?) (3N) (CANDIDATE? OR LIKELIHOOD? OR POSSIBILITY? OR PROBABILITY?)
S12	2872823	SPATIAL(3N)POSITION? OR COORDINATES OR POSITION?
S13	843098	COLUMNS OR VERTICAL
S14	633201	ROWS OR HORIZONTAL
S15	1061	LANGUAGE?(3N)MODEL?
S16	45	(NGRAM OR N-GRAM OR N()GRAM) (3N)MODEL?
S17	3179	S1 AND (LAYOUT OR LAY()OUT OR FORMAT? OR LAID()OUT)
S18	77	AU=(HURST, M? OR NASUKAWA, T? OR HURST M? OR NASUKAWA T?)
S19	0	S17 AND S18
S20	2	S18 AND S2:S5
S21	199	S17 AND S2:S5
S22	1	S21 AND S6
S23	1	S21 AND S7
S24	0	S22 AND S8
S25	2	S22 OR S23
S26	2	S25 NOT S20
S27	103	S21 AND S9
S28	3	S27 AND S10
S29	3	S28 NOT (S25 OR S20)
S30	0	S27 AND S11
S31	18	S27 AND (S12 OR S13 OR S14)
S32	0	S31 AND S15
S33	0	S31 AND (S16 OR GRAMS OR GRAM)
S34	16	S31 AND IC=G06F?
S35	13	S34 NOT PY=>2001
S36	5	S31 AND IC=G06K?
S37	2	S36 NOT (S35 OR S20 OR S26 OR S29)
S38	0	S37 NOT PY=>2001

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Set	Items	Description
S1	199033	DOCUMENTS
S2	376590	TEXT(3N)BLOCK?? OR NODE??
S3	541802	GRAPH??
S4	172536	DOT OR DOT()NODE?
S5	23	SIDE()ARC
S6	61529	NATURAL(3N)LANGUAGE?
S7	11341	MACHINE(3N)TRANSLAT?
S8	954	SEMANTIC(3N)EVALUAT?
S9	8020478	TOKEN?? OR WORD?? OR SPACES OR CHARACTER? OR LETTERS OR OBJECT?? OR KANJI OR SYMBOLS
S10	204484	BLANK(3N)CHARACTER?? OR SPACES
S11	28581	(CONNECT? OR LINK? OR ASSOCIATE? OR CORRESPOND?) (3N) (CANDIDATE? OR LIKELIHOOD? OR POSSIBILITY? OR PROBABILITY?)
S12	1715835	SPATIAL(3N)POSITION? OR COORDINATES OR POSITION?
S13	688621	COLUMNS OR VERTICAL
S14	375871	ROWS OR HORIZONTAL
S15	40805	LANGUAGE?(3N)MODEL?
S16	790	(NGRAM OR N-GRAM OR N()GRAM) (3N)MODEL?
S17	13127	S1 AND (LAYOUT OR LAY()OUT OR FORMAT? OR LAID()OUT)
S18	619	AU=(HURST, M? OR NASUKAWA, T? OR HURST M? OR NASUKAWA T?)
S19	0	S17 AND S2 AND S3 AND S4 AND S5 AND S6
S20	0	S17 AND S2 AND S4 AND S5
S21	0	S1 AND S2 AND S3 AND S4
S22	0	S2 AND S3 AND S4 AND S5
S23	0	S3 AND S4 AND S5
S24	7	S6 AND S7 AND S8
S25	4	S24 AND S9
S26	4	RD S25 (unique items)
S27	5735	S9 AND S11

S28	383	S27 AND S12:S14
S29	0	S28 AND (S15 OR S16)
S30	0	S28 AND S17
S31	0	S28 AND S18
S32	171	S27 AND S10
S33	0	S32 AND S4 AND S5
S34	0	S32 AND (S4 OR S5)
S35	5	S32 AND S2
S36	5	S35 NOT S24
S37	3	RD S36 (unique items)
S38	0	S37 NOT (NETWORKS OR SHEEP)
S39	3	S18 AND S17
S40	2	RD S39 (unique items)
S41	0	LAYOUT AND S7 AND S11
S42	0	S16 AND S17
S43	25	S16 AND S1
S44	1	S43 AND S2:S5
S45	4	S11 AND S9 AND S16
S46	4	S45 NOT (S44 OR S39 OR S36 OR S26)
S47	2	RD S46 (unique items)
S48	32	S7 AND S17
S49	1	S48 AND S2:S5
S50	1	S49 NOT (S45 OR S44 OR S39 OR S36 OR S26)
S51	0	S28 AND S16
S52	10	S28 AND S2:S5
S53	0	S52 AND S15
S54	10	S52 NOT (S49 OR S45 OR S44 OR S39 OR S36 OR S26)
S55	10	RD S54 (unique items)
S56	1	S28 AND S1
S57	1	S56 NOT (S52 OR S49 OR S45 OR S44 OR S39 OR S36 OR S26)
S58	0	S57 NOT NIXON
S59	1	S28 AND S7
S60	1	S59 NOT (S56 OR S52 OR S49 OR S45 OR S44 OR S39 OR S36 OR - S26)